Protecting the air we share
Air Quality
CLARK COUNTY • DEPARTMENT OF AIR QUALITY
4701 W. Russell Rd., Suite 200 • 2nd Floor • Las Vegas, NV 89118-2231
(702) 455-5942 • Fax (702) 383-9994

For DAQ Use Only
Invoice Number:

EMISSION UNIT INFORMATION WORKSHEET
INTERNAL COMBUSTION ENGINE

(Must be submitted with the "Minor Source Permit" or "Authority to Construct Major Source")

I. SOURCE INFORMATION

Source Name:_____

Source ID Number (if applicable):_____

II. ENGINE SPECIFICATIONS (Complete all that apply)

Engine Manufacturer's Name:_____

Engine Model Number:_____ **Engine Serial Number:** _____

Date of Engine Manufacture:_____

Date Unit Ordered:_____ **Date of Installation:**_____

Number of Cylinders: _____**Displacement:** _____ **(in^3, liters)**

Check ALL configurations below that apply to this engine:

[ ] Two Cycle **[ ] Four Cycle** **[ ] Dual-Fuel (not Flex Fuel)**

[ ] Spark Ignition **[ ] Compression Ignition**

[ ] Lean Burn **[ ] Rich Burn**

Engine Power Rating: _____ **(HP) @** _____**RPM**

Type of Fuel(s) Used: _____

Exhaust Stack Height above grade:_____ **ft**

Exhaust Stack Diameter: _____**in**

Exhaust Velocity:_____ **ft/sec** **Or**

Exhaust Flow Rate:_____**ft^3/min**

Exhaust Temperature: _____**°F**

III. EQUIPMENT SPECIFICATIONS (Complete all that apply)

Check ONE option below that best describes the equipment receiving power from the engine referenced above:

[ ] Electrical Generator
[ ] Fire Pump
[ ] Air Compressor
[ ] Other, Explain _____

Equipment Manufacturer's Name: _____

Equipment Model Number:_____

Equipment Serial Number:_____

Electrical Generator Output Rating (if applicable):_____(kW)

IV. EMISSIONS DATA

For the purposes of determining whether or not a source needs a Minor Source Permit, DAQEM will calculate the Potential to Emit (PTE) using 8,760 hours of operation per year for all engines, including emergency equipment.

Emergency Equipment (backup power supply)

DAQEM will calculate a source's permitted PTE for emergency generators and/or fire pumps using 500 hours per year. The source's PTE will include operation due to testing, maintenance and emergencies. DAQEM will limit the maximum operating hours for testing and maintenance to the limits specified in any applicable NSPS or NESHAP (e.g. 100 hours per year).

Continuous Duty Equipment (primary power supply)

DAQEM will calculate a source's permitted PTE for continuous duty equipment using 8,760 hours per year, unless the emission unit is physically or voluntarily limited. The permitted PTE will include all operating purposes.

If you are requesting a limit on maximum operating hours less than those described in the paragraph above, specify total operating hours below:

_____ (hours/day), AND/OR _____ (hours/year)

Engine Emissions Data

List the emission data for this unit for Particulate Matter under 10 microns (PM_{10}), Particulate Matter under 2.5 microns ($PM_{2.5}$), Nitrogen Oxides (NO_x), Sulfur Oxides (SO_x), Carbon Monoxide (CO), and Volatile Organic Compounds (VOC).

POLLUTANT	EMISSIONS RATE	UNITS (Circle One)
$PM_{2.5}$		g/bhp-hr; g/hr; ppmv; lb/day; lb/gallon
PM_{10}		g/bhp-hr; g/hr; ppmv; lb/day; lb/gallon
NO_x		g/bhp-hr; g/hr; ppmv; lb/day; lb/gallon
SO_x		g/bhp-hr; g/hr; ppmv; lb/day; lb/gallon
CO		g/bhp-hr; g/hr; ppmv; lb/day; lb/gallon
VOC		g/bhp-hr; g/hr; ppmv; lb/day; lb/gallon
GHG*		g/bhp-hr; g/hr; ppmv; lb/day; lb/gallon

***Greenhouse Gas emissions (calculated in CO2e) required for sources subject to major source NSR and/or Title V.**

Check ALL sources of emissions data referenced above and note for which pollutant(s):

[ ] Manufacturer's Guarantee* **Pollutant(s)**_____

[ ] Source Test **Pollutant(s)**_____

[ ] AP-42 (if no other data available) **Pollutant(s)**_____

What methods of air pollution control are used with this engine?*

_____

_____

_____

_____

*** Attach copy of Manufacturer's Information concerning emissions and controls.**